

TO:DICKSTEIN SHAPIRO LLP COMPANY:1825 EYE STREET, NW

**UNITED STATES PATENT AND TRADEMARK OFFICE**

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE



\*500744966\*

JANUARY 05, 2009

PTAS

DICKSTEIN SHAPIRO LLP  
1825 EYE STREET, NW  
WASHINGTON, DC 20006

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 01/04/2009

REEL/FRAME: 022043/0937

NUMBER OF PAGES: 9

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).  
DOCKET NUMBER: M4065.0916/P916

ASSIGNOR:

MICRON TECHNOLOGY, INC.

DOC DATE: 09/26/2008

ASSIGNEE:

APTINA IMAGING CORPORATION  
C/O CITCO TRUSTEES (CAYMAN)  
LIMITED, REGATTA OFFICE PARK,  
WEST BAY ROAD  
GRAND CAYMAN, CAYMAN ISLANDS  
Y1-  
1205

SERIAL NUMBER: 10656165

FILING DATE: 09/08/2003

PATENT NUMBER: 7253392

ISSUE DATE: 08/07/2007

TITLE: IMAGE SENSOR WITH PHOTO DIODE GATE

TO:DICKSTEIN SHAPIRO LLP COMPANY:1825 EYE STREET, NW

022043/0937 PAGE 2

ASSIGNMENT SERVICES BRANCH  
PUBLIC RECORDS DIVISION

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## PATENT ASSIGNMENT

Electronic Version v1.1  
Stylesheet Version v1.101/04/2009  
500744956

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Micron Technology, Inc.	09/26/2008
RECEIVING PARTY DATA	
Name:	Aptina Imaging Corporation
Street Address:	c/o Citco Trustees (Cayman) Limited, Regatta Office Park, West Bay Road
City:	Grand Cayman
State/Country:	CAYMAN ISLANDS
Postal Code:	Y1-1205
PROPERTY NUMBERS Total: 1	
Property Type	Number
Patent Number:	7253392
CORRESPONDENCE DATA	
Fax Number:	(202)420-2201
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	202-420-2200
Email:	weavera@dicksteinshapiro.com
Correspondent Name:	Dickstein Shapiro LLP
Address Line 1:	1825 Eye Street, NW
Address Line 4:	Washington, DISTRICT OF COLUMBIA 20006
ATTORNEY DOCKET NUMBER:	M4065.0916/P916
NAME OF SUBMITTER:	Thomas J. D'Amico
Total Attachments: 7 source=M40650916#page1.tif source=M40650916#page2.tif source=M40650916#page3.tif source=M40650916#page4.tif source=M40650916#page5.tif	

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## PATENT ASSIGNMENT AGREEMENT

### **1. Definitions**

(a) "Agreement" shall mean this Patent Assignment Agreement.

(b) "Assignee" shall mean **Aptina Imaging Corporation**, a Cayman Islands corporation with offices at c/o Citco Trustees (Cayman) Limited, Regatta Office Park, West Bay Road, Grand Cayman, Y1-1205, Cayman Islands.

(c) "Assignor" shall mean **Micron Technology, Inc.**, a Delaware corporation with offices at 8000 South Federal Way, Boise, ID 83707.

(d) "Effective Date" shall mean October 3, 2008.

(e)



(f)



(g) "Imaging Patents" shall mean those patents identified in ATTACHMENT "A" hereto, including, without limitation, all divisions, continuations, continuations-in-part, reissues, reexaminations, and all foreign counterparts thereof, and which may issue thereon or in connection therewith after the Effective Date of this Agreement.

(h) "Imaging Patent Applications" shall mean those filed patent applications identified in ATTACHMENT "B" hereto, including, without limitation, all patents, divisions, continuations, continuations-in-part, reissues, reexaminations, and all foreign counterparts which may issue thereon or in connection therewith after the Effective Date of this Agreement.

(i) "Semiconductor Patents" shall mean those patents identified in ATTACHMENT "D" hereto, including, without limitation, all divisions, continuations, continuations-in-part, reissues, reexaminations, and all foreign counterparts thereof, and which may issue thereon or in connection therewith after the Effective Date of this Agreement.

(j) "Semiconductor Patent Applications" shall mean those filed patent applications identified in ATTACHMENT "E" hereto, including, without limitation, all patents, divisions, continuations, continuations-in-part, reissues, reexaminations, and all foreign counterparts which may issue thereon or in connection therewith after the Effective Date of this Agreement.

(k) [REDACTED]

2. [REDACTED]

(a) Subject to the terms and conditions of this Agreement, and subject to the rights of others existing as of the Effective Date of this Agreement if any, Assignor, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, hereby sells, assigns, and transfers to Assignee its entire right, title and interest in and to the Imaging Patents, including all rights to causes of action and remedies related thereto (including the right to sue for past, present or future infringement of rights related to the foregoing and the right to collect damages therefor). Assignor hereby authorizes and requests the Commissioner of Patents of the United States, and any other official of the United States and any country foreign to the United States whose duty it is to issue or record patents, to issue the Imaging Patents to Assignee and to record assignment of the Imaging Patents to Assignee.

(b) Subject to the terms and conditions of this Agreement, and subject to the rights of others existing as of the Effective Date of this Agreement if any, Assignor, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, hereby sells, assigns, and transfers to Assignee its entire right, title and interest in and to the Intellectual Property rights in the Imaging Patent Applications. Assignor hereby authorizes and requests the Commissioner of Patents of the United States, and any other official of the United States and any country foreign to the United States whose duty it is to issue or record patents, to record assignment of the Imaging Patent Applications to Assignee.

(c) [REDACTED]

(d) Subject to the terms and conditions of this Agreement, and subject to the rights of others existing as of the Effective Date of this Agreement if any, and subject further to the restrictions on the Semiconductor Patents set out below, Assignor, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, hereby sells, assigns, and transfers to Assignee its entire right, title and interest in and to the Semiconductor Patents, including all rights to causes of action and remedies related thereto (including the right to sue for past, present or future infringement of rights related to the foregoing and the right to collect damages therefor). Assignor hereby authorizes and requests the Commissioner of Patents of the United States, and any other official of the United States and any country foreign to the United States whose duty it is to issue or record patents, to issue the Semiconductor Patents to Assignee and to record assignment of the Semiconductor Patents to Assignee.

(e) Subject to the terms and conditions of this Agreement, and subject to the rights of others existing as of the Effective Date of this Agreement if any, [REDACTED], Assignor, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, hereby sells, assigns, and transfers to Assignee its entire right, title and interest in and to the Intellectual Property rights in the Semiconductor Patent Applications. Assignor hereby authorizes and requests the Commissioner of Patents of the United States, and any other official of the United States and any country foreign to the United States whose duty it is to issue or record patents, to record assignment of the Semiconductor Patent Applications to Assignee.

(f)

[REDACTED]

[REDACTED]

3

[REDACTED]

4.

[REDACTED]

5.

[REDACTED]

[REDACTED]

6. [REDACTED]

[REDACTED]

7. **General**

This Agreement shall be effective as of the Effective Date hereof and shall be binding on the respective heirs, assigns, representatives, and successors of Assignor and of Assignee.

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Agreed to by:

**Micron Technology, Inc.**

Signed: [Signature]

Date: 9/26/08, 2008

**Notarization**

State of Idaho

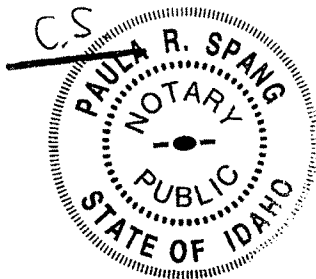
County of Ada

On 9/26/08 before me, Paula R. Spang, personally appeared the above-named Sean R. Appleton

who executed this Assignment in my presence and acknowledged to me that he did so of his own free will and in his authorized capacity for the purposes set forth herein.

Signed: [Signature]  
My commission expires: 8/12/11

REVIEWED  
MTI LEGAL



Agreed to by:

**Aptina Imaging Corporation**

Signed: Thomas L. Lauer Jr.

Date: 9/26/08, 2008

**Notarization**

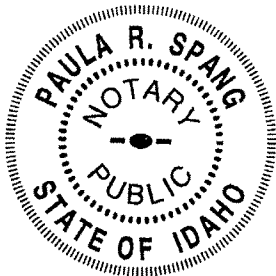
State of Idaho

County of Ada

On 9/26/08 before me, Paula R. Spang, personally appeared the above-named Thomas L. Lauer, Jr.

who executed this Assignment in my presence and acknowledged to me that he did so of his own free will and in his authorized capacity for the purposes set forth herein.

Signed: [Signature]  
My commission expires: 8/12/11



[Signature page to the Patent Assignment Agreement]

ATTACHMENT "A"



## Aptina Issued

PATENT NUMBER	FILE NUMBER	TITLE	COUNTRY NAME	ISSUE DATE
7245321	PBIT-0029.01/US	TARGET IMAGE BRIGHTNESS IN VIDEO IMAGER SYSTEMS	United States of America	Jul 17, 2007
7247836	AVGO-0085.00/US	READOUT CIRCUIT WITH GAIN AND ANALOG-TO-DIGITAL CONVERSION FOR IMAGE SENSOR	United States of America	Jul 24, 2007
7250321	1997-1488.03/US	Method And System For Determining Motion Based On Difference Image Correlation	United States of America	Jul 31, 2007
7250591	2003-1410.00/US	TRENCH PHOTODIODE FOR A CMOS IMAGER	United States of America	Jul 31, 2007
7250647	2001-1208.00/US	PHOTONIC CRYSTAL BASED FILTER FOR USE IN AN IMAGE SENSOR	United States of America	Jul 31, 2007
7253390	2003-1048.01/US	OPTIMIZED TRANSISTOR FOR IMAGER DEVICE	United States of America	Aug 7, 2007
7253392	2002-1376.00/US	METHODS FOR PACKAGING MICROELECTRONIC IMAGERS	United States of America	Aug 7, 2007
7253397	2003-0866.00/US	CMOS IMAGE SENSOR WITH PHOTO DIODE GATE	United States of America	Aug 7, 2007
7253957	2003-0807.00/US	PACKAGED MICROELECTRONIC IMAGERS AND METHODS OF PACKAGING MICROELECTRONIC IMAGERS	United States of America	Aug 7, 2007
7259413	2002-1555.00/US	INTEGRATED OPTICS UNITS AND METHODS OF MANUFACTURING INTEGRATED OPTICS UNITS FOR USE WITH MICROELECTRONIC IMAGERS	United States of America	Aug 21, 2007
7262110	2004-0021.00/US	HIGH DYNAMIC RANGE IMAGE SENSOR	United States of America	Aug 28, 2007
7262405	2003-1048.00/US	TRENCH ISOLATION STRUCTURE AND METHOD OF FORMATION	United States of America	Aug 28, 2007
7265328	2005-0488.00/US	PREFABRICATED HOUSINGS FOR MICROELECTRONIC IMAGERS AND METHODS FOR PACKAGING MICROELECTRONIC IMAGERS	United States of America	Sep 4, 2007
7265330	2003-0917.01/US	NEW DESIGN FOR AN OPTICAL GUIDE FOR A PIXEL BASED ON A RING OF SPACED SLOTS AROUND AN AIR-FILLED PHOTODIODE	United States of America	Sep 4, 2007